



# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(use as many sheets as necessary)*

Sheet 1 of ~~26~~ 47 Attorney Docket Number 9113-20US

## **U.S. PATENT DOCUMENTS**

Examiner Signature	/Stephen Kalafut/	Date Considered	12/03/2007
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO				<b>Complete if Known</b>		
				Application Number	09/009,455	
				Filing Date	01/20/1998	
				First Named Inventor	Mills	
				Group Art Unit	1745	
				Examiner Name	Kalafut	
Sheet	2	of	<del>26</del>	47	Attorney Docket Number	9113-20US

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite N. o.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
/SK/		WO	94/29873	A2	Mills	12-22-1994	
		WO	99/05735	A1	Mills	03-04-1999	
		WO	99/26078	A1	Mills	5-27-1999	
		WO	99/34322	A1	Mills	7-8-1999	
		WO	99/35698	A3	Mills	07-15-1999	
		WO	00/07931	A1	Mills	02-17-2000	
		WO	00/07932	A2	Mills	2-17-2000	
		WO	00/25320	A1	Davies	05-04-2000	
		WO	01/095944	A2	Mills	12-20-2001	
		WO	01/18948	A1	Mills	3-15-2001	
		WO	01/21300	A2	Mills	03-29-2001	
▼		WO	01/22472	A2	Mills	3-29-2001	
/SK/		WO	01/70627	A3	Mills	08-27-2001	

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/SK/		WO	02/08787	A2	De Geus	01-31-2002		
		WO	02/087291	A2	Mills	10-31-2002		
		WO	02/088020	A2	Mills	11-7-2002		
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		WO	2005/116630	A1	Mills	12-08-2005		
		WO	2007/051078	A1	Mills	05-03-2007		
↓		WO	2007/053486	A1	Mills	05-10-2007		
/SK/		GB	2 343 291		Lloyd Wise, Tregear & Co.	05-13-2000		

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/SK/		"Atomic Physics Progress Report 1995-1996" (internet page) atompc2.fysik.lth.se/AFDOCS/Progrep956/contents.asp (author and date unknown)			
/SK/		"Atomic Spectroscopy" (internet page) physics.nist.gov/Pubs/AtSpec/node20.html (author and date unknown)			
/SK/		Baard, Erik. "The Empire Strikes Back." <i>The Village Voice</i> , April 26-May 2, 2000			
		<del>Baard, Erik. "Quantum Leap." <i>The Village Voice</i>, Dec 22-28, 1999.</del>			
/SK/		Baard, Erik, "Hydrino Theorist Gets Nod From NASA-Funded Investigation Eureka?", <i>The Village Voice</i> , Dec. 6, 2002			
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/SK/		Bjorken et al., ""Relativistische Quantenmechanik", <i>Die Dirac-Gleichung</i> , pp. 22-25, 1964 (no month)			
/SK/		"Blacklight Power - do they have something significant?" (internet page) www.phact.org/e/blp.htm (author and date unknown)			
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/SK/		Blue. "Cold Fusion Lies." <i>Deja News on the Internet</i> , April 13, 1997.	
/SK/		Blue. "Randell Mills' Sells Pot Shards." <i>Deja News on the Internet</i> , April 30, 1997.	
/SK/		Bosch, et. al. "Electrochemical Cold Fusion Trials at IPP Garching." <i>Journal of Fusion Energy</i> , Vol 9, No 2, June 1990, pp. 165-186.	
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/SK/		Brewer, Shelby T. Book review of "The grand Unified Theory of Classical Quantum Mechanics (Hardcover) by Randell L., Dr. Mills." (internet page) <a href="http://www.amazon.com/gp/product/product-description/0963517139/ref=dp_proddesc_0/103-5711659-8507030">http://www.amazon.com/gp/product/product-description/0963517139/ref=dp_proddesc_0/103-5711659-8507030</a> (date unknown)	
		Carolina, et al. "Effect of Dielectric Constant, Cavities in Series and Cavities in Parallel on the Product Distribution of the Oligomerization of Methane via Microwave Plasmas." <i>J. Phys. Chem.</i> , Vol 100, 1996, pp. 17866-17872.	
/SK/		Conrads, et. al. "Emission in the Deep Vacuum Ultraviolet from an Incandescently Driven Plasma in a Potassium Carbonate Cell", <i>Plasma Sources Science and Technology</i> , submitted. <i>(no date)</i>	
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		<del>Dagani "Gold Fusion Utah Pressures Pens, Fleischmann." C&amp;EN, January 14, 1991, pp. 4-5.</del>			
/SK/		Dennis "Hidden Variables and Relativistic Tachyons" (internet page) <a href="http://www.objectivescience.com/articles/ed_tachy.htm">www.objectivescience.com/articles/ed_tachy.htm</a> (Date unknown)			
/SK/		Durr, et. al. "Origin of quantum-mechanical complementarity probed by a 'which-way' experiment in an atom interferometer." <i>Nature</i> , Vol 395, September 3, 1998, pp. 33-37.			
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/SK/		Fischer et al. "Sh-, S- Und S- Zentren In KC1-Kristallen." <i>Physics Letters</i> , Vol 13, Oct. 27, 1964, pp. 113-114.			
/SK/		Fuchs and Peres. "Quantum Theory Needs No 'Interpretation'." <i>Physics Today</i> , March 2000, p. 70.			
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/SK/		Gottfried, "Quantum electrodynamics: Matter all in the mind", (internet page) <a href="http://www.nature.com/cgi-taf/DynaPage.t...e/journal/v419/n6903/full/419117a_r.html">www.nature.com/cgi-taf/DynaPage.t...e/journal/v419/n6903/full/419117a_r.html</a> , 2002			(no month)
/SK/		Gulyaev "Gigantic Atoms in Space" (internet page) <a href="http://www.astronomy.org.nz/events/month...reviews/2001/gigantic_atoms_in_space.htm">www.astronomy.org.nz/events/month...reviews/2001/gigantic_atoms_in_space.htm</a> (date unknown)			
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/SK/		Jones, et. al. "Serious Flaws in Patterson (SOFE '95) Demo on Cold Fusion." available at <a href="http://x7.dejanews.com">http://x7.dejanews.com</a> , October 1995.			
/SK/		Judge, "SHE-2 Latest Solar EUV Measurements"(internet page) <a href="http://www.usc.edu/dept/space_science/seh2data.htm">www.usc.edu/dept/space_science/seh2data.htm</a> , August 18, 1997			
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/SK/		Mayo, et. al. "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Micro distributed Power Applications", <i>IEEE Transactions on Plasma Science</i> , submitted. (no date)			
/SK/		Miller. "Memo from Bennett Miller to Dr. Robert W. Bass." October 9, 1997, pp. 1-10.			
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/SK/		Morrison. "Cold Fusion Update No. 12, ICCPG." Jan 17, 1997, available online at "www.skypoint.com".			
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/SK/		Park, Robert L. "Perpetual Motion: Still Going Around." <i>Washington Post</i> , January 12, 2000, pg H03.			
/SK/		Plasmaphysics.org. Conversion Table: cgs/SI- units. (internet page) <a href="http://www.plasmaphysics.org.uk/convers.htm">www.plasmaphysics.org.uk/convers.htm</a> . (no author or date listed)			
/SK/		Platt, Charles. "Testing the Current." <i>Washington Post</i> . June 25, 2000, pg X05.			
		<del>Physics 200-04 course, "Pauli Spin Matrices," <a href="http://exon.physics.ubc.ca/200-04/pauli-spin.pdf">http://exon.physics.ubc.ca/200-04/pauli-spin.pdf</a></del>			
/SK/		Popov. "Electrochemical Characterization of BlackLight Power, Inc. MH as Electrodes for Li-ion Batteries." Department of Chemical Engineering University of South Carolina, Feb 2000.			
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/SK/		Powell et al. <i>Quantum Mechanics</i> , Addison-Weskey Publishing Co., Inc., pp. 205-229 and 478-482, 1961 (no month)			
/SK/		Rathke "A Critical Analysis of the Hydrino Model", <i>New Journal of Physics</i> , 19 May 2005, <a href="http://www.iop.org/ej/article/1367-2630/7/1/127/njp5_1_127.html">http://www.iop.org/ej/article/1367-2630/7/1/127/njp5_1_127.html</a>			
/SK/		Rauch et al. "Some F-Band Optical Oscillator Strengths in Additively Colored Alkali Halides." <i>Physical Review</i> , Feb 1, 1957, Vol 105, pp. 914-920.			
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/SK/		Shelton, et. al. "An assessment of claims of 'excess heat' in 'cold fusion' calorimetry." <i>Elsevier Science B.V., Thermomechanics Acta</i> 297, 1997, pp. 7-15. (no month)			
/SK/		Shermer, "Baloney Detection", <i>Scientific American</i> , November 2001			
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/SK/		Silvera, et. al. "Deuterated palladium at temperatures from 4.3 to 400K and pressures to 105 kbar; Search for cold fusion." <i>The American Physical Society</i> , Vol 42, No 14, November 15 1990 pp. 9143-9146			
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/SK/		"Stellar Spectra and the Secrets of Starlight" (Internet Pages) <a href="http://www.kingusa.ab.ca/~brian/astro/course/lectures/fall/a200110g.htm">www.kingusa.ab.ca/~brian/astro/course/lectures/fall/a200110g.htm</a> (date and author unknown)			
/SK/		Stipp. "Georgia Group Outlines Errors That Led to Withdrawal of Cold Fusion Claims." <i>The Wall Street Journal</i> , April 26, 1989, p. B4.			
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/SK/		116. K. Akhtar, J. Scharer, R. L. Mills, "Substantial Doppler Broadening of Atomic Hydrogen Lines in DC and Capacitively Coupled RF Plasmas," IEEE Transactions on Plasma Science, submitted. (Internet Publication Date: June 6, 2006.)			
/SK/		115. R.L. Mills, H. Zea, J. He, B. Dhandapani, "Water Bath Calorimetry on a Catalytic Reaction of Atomic Hydrogen," International Journal of Hydrogen Energy, in press. (Internet Publication Date: May 12, 2006)			
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(use as many sheets as necessary)

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/SK/		Weisskopf, V.F. "Recent developments in the theory of the electron." <i>Reviews of Modern Physics</i> , Vol 21, No 2, 1949, pp. 305-315.  (no month)	
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		<a href="http://hyperphysics.phy-astr.gsu.edu/hbase/kinetic/molke.htm">http://hyperphysics.phy-astr.gsu.edu/hbase/kinetic/molke.htm</a>	
/SK/		The Internet Encyclopedia of Philosophy, "Logical Positivism," <a href="http://iep.utm.edu/logpos.htm">http://iep.utm.edu/logpos.htm</a>	
		He II in Solar Spectrum	
/SK/		"XPS (EASC) -SAM," <a href="http://www.noveonic.com/measurementscience/analyticalservices/xpsescasam.pdf">http://www.noveonic.com/measurementscience/analyticalservices/xpsescasam.pdf</a> (no date)	
/SK/		S. Aaronson, "Hydrino Theory: Which Overturns Quantum Theory, Is in Turn Overturned by Doofusino Theory." < <a href="http://www.scottaaronson.com/writings/doofusino.html">http://www.scottaaronson.com/writings/doofusino.html</a> >	(no date)
Examiner Signature	/Stephen Kalafut/		Date Considered 12/03/2007

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Substitute for form 1449B/PTO				<i>Complete if Known</i>	
				Application Number	09/009,455
				Filing Date	01/20/1998
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	32		<i>26</i>	47	Attorney Docket Number 9113-20US

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/SK/		"The Biggest Venture Capital Conference of the Year is Quickly Approaching," Special to Evening Bulletin 09/29/2006, < <a href="http://www.theeveningbulletin.com/site/news.cfm?newsid=17263371&amp;BRD=2737&amp;PAG=461&amp;dept_id=57636&amp;rfi=6">http://www.theeveningbulletin.com/site/news.cfm?newsid=17263371&amp;BRD=2737&amp;PAG=461&amp;dept_id=57636&amp;rfi=6</a> >			
/SK/		Blacklight Power, Inc., "Second Shareholder Newsletter '97" < <a href="http://web.archive.org/web/19980212141859/blacklightpower.com/sharenews2.html">http://web.archive.org/web/19980212141859/blacklightpower.com/sharenews2.html</a> > (10/1997)			
		"The Chemistry of Halogens," <a href="http://chemed.chem.psu.edu/genchem/topicreview/bp/oh10/group7.html">http://chemed.chem.psu.edu/genchem/topicreview/bp/oh10/group7.html</a>			
/SK/		CiteSeer, "Observation of Extreme Ultraviolet Hydrogen Emission from Incandescently Heated Hydrogen Gas with Strontium that Produced an Anomalous Optically Measured Power Balance," Int. J. Hydrogen Energy 26 (4) 2001, pg. 309-326 < <a href="http://citeseer.ist.psu.edu/comntext/1749692/449101">http://citeseer.ist.psu.edu/comntext/1749692/449101</a> > (no month)			
/SK/		Directory: Blacklight Power, From PESWiki "A Top 100 Energy Technology," < <a href="http://peswiki.com/index.php/Directory:Blacklight_Power">http://peswiki.com/index.php/Directory:Blacklight_Power</a> > (no date)			
/SK/		M. Fowler, "The Lorentz Transformation," UVa Physics 252, < <a href="http://galileo.phys.virginia.edu/classes/252/lorentztrans.html">http://galileo.phys.virginia.edu/classes/252/lorentztrans.html</a> > (no date)			
/SK/		The Harvard Crimson News: Academics Question the Science Behind Blacklight Power, Inc." < <a href="http://www.the crimson.com/printerfriendly.aspx?ref=100939">http://www.the crimson.com/printerfriendly.aspx?ref=100939</a> > (5/2000)			
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		<del>Hydrogen Theory, &lt;http://en.wikipedia.org/wiki/hydrogen_theory&gt;</del>			
		<del>"The Hydrogen Atom," &lt;http://www.physics.nmt.edu/~raymond/classes/ph13xbook/node200.html&gt;</del>			
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/SK/		Real Climate, 20 January 2005, "Peer Review: A Necessary But Not Sufficient Condition," <http://www.realclimate.org/index.php?p=109>			
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/SK/		Time 2 wake up: "New Power SOURCE that turns physics on its head," 11/09/2005.			
		<del>Chemistry Course Listings in MIT OpenCourseWare. MIT 2005. http://ocw.mit.edu/OcwWeb/Chemistry/index.htm</del>			
		<del>Conversion Table egs/Gi Units. www.plasmaphysics.org.uk/convers.htm (also cited on page 9)</del>			
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<p>Substitute for form 1449B/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>(use as many sheets as necessary)</p>		<i>Complete if Known</i>	
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		Filing Date	01/20/1998
		First Named Inventor	Mills
		Group Art Unit	1745
		Examiner Name	Kalafut
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		Attorney Docket Number	
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## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>w</sup> (If known)			
/SK/	5,838,760			Moses	11-1998	
	5,864,322			Pollon et al.	01-1999	
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↓	7,188,033			Mills	03-06-2007	
/SK/	6,149,829			Takamatsu et al.	11-2000	

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		Examiner Name	Kalafut
Sheet	26	of	26 47
Attorney Docket Number			
9113-20US			

## **FOREIGN PATENT DOCUMENTS**

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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Complete if Known	
Application Number	09/009,455
Filing Date	01/20/1998
First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Langel Kalafut
Attorney Docket Number	62-226-8A3

## U.S. PATENT DOCUMENTS

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				First Named Inventor	Mills
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				Examiner Name	Langer Kalafut
Sheet	✓ 38	of	47	Attorney Docket Number	62-226-8A3

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		Examiner Name	Lange+ Kalafut
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<p>Substitute for form 1449B/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>(use as many sheets as necessary)</p>		<i>Complete if Known</i>	
		Application Number	09/009,455
		Filing Date	1/20/1998
		First Named Inventor	Mills
		Group Art Unit	1745
		Examiner Name	Langer Kalafut
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		Attorney Docket Number	

#### OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Signature	/Stephen Kalafut/	Date Considered	12/03/2007
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				Group Art Unit	1745
				Examiner Name	Langer+ Kalafut
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Attorney Docket Number					

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
		BlackLight Power, Inc., pp. 433-440, 2001			T <sup>2</sup>
		NEYNABER et al., "Formation of HeH <sup>+</sup> from Low Energy Collisions of Metastable Helium and Molecular Hyrdogen", J. Chem. Phy., 57, pp. 5128-5137, (Dec. 16, 1972)			
		HOLLANDER et al., "Vacuum ultraviolet emission from microwave plasmas of hydrogen and its mixtures with helium and oxygen", J. Vac. Sci. Technol., 12, pp. 879-882, (1994)			
		FUJIMOTO et al., "Ratio of Balmer line intensities resulting from dissociative excitation of molecular hydrogen in an ionizing plasma", J. Appl. Phys., 66, pp. 2315-5319, (1999)			
		KURUNCZI et al., "Excimer formation in high-pressure microhollow cathode discharge plasmas in helium initiated by low-energy electron collisions", Intl. J. Mass Spectrometry, 205, pp. 277-283, (2001)			
		ABDALLAH et al., "The Behavior of Nitrogen Excited in an Inductively Coupled Argon Plasma", J. Quant. Spectrosc. Radiat. Transfer, 19, pp. 83-91, (1978)			
		FOZZA et al., "Vacuum ultraviolet to visible emission from hydrogen plasma: Effect of excitation frequency", J. Appl. Phys., 88, pp. 20-33, (2000)			
		HODOROABA et al., "Investigations of the effect of hydrogen in an argon glow discharge", J. Analytical Atomic Spectrometry, (published on the Web 8-4-2000)			
		KURAICA et al., "Line shapes of atomic hydrogen in a plane-cathode abnormal glow discharge", Physical Review, 46, pp. 4429-4432, (1992)			
		KURUNCZI et al., "Hydrogen Lyman- $\alpha$ and Lyman- $\beta$ emissions from high-pressure microhollow cathode discharges in Ne-H <sub>2</sub> mixtures", J. Phys. At. Mol. Opt. Phys., 32, pp. L651-L658, (1999)			

Examiner Signature	/Stephen Kalafut/	Date Considered	12/03/2007
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		Group Art Unit	1745
		Examiner Name	Tanget Kalafut
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		JOYCE et al., "Ion distribution functions in an Ar-CECR discharge", <i>Plasma Sources Sci. Technol.</i> , 9, pp. 429-436, (2000)	
		KAWAI et al., "Electron temperature, density, and metastable-atom density of argon electron-cyclotron-resonance plasma discharged by 7.0, 8.0, and 9.4 GHz microwaves", <i>J. Vac. Sci. Technol. A</i> , 18, pp. 2207-2212, (2000)	
		ABRAMOVA et al., "Tornado-type closed-magnetic-trap for an electron-cyclotron resonance ion source", <i>Review of Scientific Instruments</i> , 71, pp. 921-923, (2000)	
		MEULENBROEKS et al., "The argon-hydrogen expanding plasma: model and experiments", <i>Plasma Sources Sci. Technol.</i> , 4, pp. 74-85 (1995)	
		MEULENBROEKS et al., "Influence of molecular processes on the hydrogen atomic system in an expanding argon-hydrogen plasma", <i>Phys. Plasmas</i> , 2, pp. 1002-1008 (1995)	
		RUDD et al., "Backward Peak in the Electron Spectrum from Collisions of 70-ke V Protons with a Target from a Hydrogen Atom Source", <i>The American Physical Society</i> , 68, pp. 1504-1506. (1992)	

Examiner Signature	/Stephen Kalafut/	Date Considered	12/03/2007
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				Filing Date	01/20/1998
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
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					9113-20US

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		<del>Park, "Patent Nonsense, Court Denies BlackLight Power Appeal," What's New, September 6, 2002, available at www.aps.org.wn/nn02/wn090602.html.</del>	
		<del>Prop. To the United Press, "Theory May Explain 'Cold Fusion' Puzzle," Lexis-Nexis Reprint, 1991.</del>	
		<del>Mills, "The Grand Unified Theory of Classical Quantum Mechanics," pp. 13-14, BlackLight Power, Inc., pp. 433-440, 2001.</del>	
Examiner Signature	/Stephen Kalafut/	Date Considered	12/03/2007

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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		BlackLight Power, "Executive Summary," January 11, 1999, pp. 1-6	
		Brodowsky, "Solubility and diffusion of hydrogen and deuterium in Palladium and Palladium Alloys," Tech. Bulletin, England Indust., vol. 7, No. 1-2 (1900), pp. 41-50.	
		Fischer, "Die optische Absorption der U <sub>2</sub> -Zentren in Alkalihalogenidkristallen des BaCl-Typs," Zeitschrift für Physik, Vol 204, 1967, pp. 351-374.	
		Fusion Digest, "Cold Nuclear Fusion Bibliography," 1993.	
		Fusion Digest, "Heat? Neutrons? Charged Particles?", 1993.	
		"Italy Cold Fusion & Judge's Verdict," (1996), pp. 1-3, available at <a href="http://www.padrak.com/ine/cflibl.html">http://www.padrak.com/ine/cflibl.html</a> .	
		Morrison, "Review of Cold Fusion," Sov. Phys. Usp. 34, December 1991, pp. 1055-1060.	
		Morrison, "Cold Fusion Update No. 10," dated April 1, 1996, available at <a href="http://www.skypoint.com/members/slogajan/files/morrison.txt">http://www.skypoint.com/members/slogajan/files/morrison.txt</a> , pp. 1-8.	
Examiner Signature	/Stephen Kalafut/		Date Considered 12/03/2007

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